5th week of pregnancy

3 mm
5th week of pregnancy

- Ureteric bud
- Metanephrogenic blastema
- Cloaca

3 mm
Ureteric tunnel

Normal

VUR
Ureteric tunnel

Mackie and Stephens (1975)
Conceptual model for 1 million of children

VUR 3%, 30,000

UTI 6,000
- Recurrent UTI 2,000
- No UTI 24,000

Renal “scarring” 10,000

Hypertension?

ESRD 5

McIlroy PJ et al. 
*J Paediatr Child Health* 36 : 569 –573, 2000

http://jasn.asnjournals.org/cgi/content/full/19/5/847
Antibiotic Prophylaxis and Renal Damage In Congenital Abnormalities of the Kidney and Urinary Tract (PREDICT)

G Montini et al